11) Publication number:

0 148 364

A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **84113527.0**

61 Int. Cl.4: **H 03 K 5/15**

H 03 K 17/22, G 11 C 8/00

(22) Date of filing: 09.11.84

(30) Priority: 11.11.83 JP 211791/83

(43) Date of publication of application: 17.07.85 Bulletin 85/29

88 Date of deferred publication of search report: 20.11.86

(84) Designated Contracting States: DE FR GB

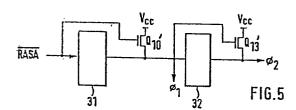
(71) Applicant: NEC CORPORATION 33-1, Shiba 5-chome, Minato-ku Tokyo 108(JP)

(72) Inventor: Fukuzo, Yukio c/o NEC Corporation 33-1, Shiba 5-chome Minato-ku Tokyo(JP)

74) Representative: Glawe, Delfs, Moll & Partner Patentanwälte Postfach 26 01 62 Liebherrstrasse 20 D-8000 München 26(DE)

54) Timing signal generator.

(57) A timing signal generator which can operate stably even when, or directly after, a power supply is switched on. The generator is of the type having a first delay circuit (31) for generating a first timing signal (Ø1) in response to said input control signal and a second delay circuit (32) for generating a second timing signal (Ø2) in response to the first timing signal (Ø1), and is featured by a first transistor (Ø10) connected between the output of the first delay circuit (31) and a voltage terminal, with a gate connected to the inlput of the first delay circuit and a second transistor (Ø13), connected to the output of the second delay circuit (32) and the voltage terminal with a gate connected to receive the first timing signal (Ø1).





EUROPEAN SEARCH REPORT

EP 84 11 3527

Category		h indication, where appropriate, ant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
]	IBM TECHNICAL DIS BULLETIN, vol. 23 1980, pages 723,7 New York, US; P. al "On-chip pow circuit" * Whole document	, no. 2, July 24, IBM Corp., EVRENIDIS et er-on-reset		H 03 K 5/15 H 03 K 17/22 G 11 C 8/00
A	 GB-A-1 337 910 (* Figure; page 1, 2, line 24 *		1	
A	IBM TECHNICAL DIS BULLETIN, vol. 21 1978, pages 734-7 New York, US; J. "On-chip clock ge * Whole document	, no. 2, July 37, IBM Corp., BULA et al.: enerator"	1	TECHNICAL FIELDS SEARCHED (Int CI 4)
A	PATENTS ABSTRACTS 7, no. 129 (E-179 June 1983; & JP - (HITACHI SEISAKUS 14-03-1983 * Figure; abstrac	9)[1274], 4th A - 58 43 622 SHO K.K.)	1	H 03 K G 11 C G 06 F
	· ·	-/-	·	
•	The present search report has b	een drawn up for all claims		
r	Place of search THE HAGUE	Date of completion of the search		Examiner S A.G.W.
Y:pa de A:te O:ne	CATEGORY OF CITED DOCL articularly relevant if taken alone articularly relevant if combined w bocument of the same category chnological background bon-written disclosure termediate document	erlying the invention t, but published on, or pplication or reasons tent family, corresponding		



EUROPEAN SEARCH REPORT

EP 84 11 3527

	DOCUMENTS CONS	Page 2			
Category	Citation of document with of releva	n indication, where appr ant passages	opriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.4)
A	IEEE JOURNAL OF S CIRCUITS, vol. SO October 1978, pag IEEE, New York, U et al.: "A 920 ga masterslice" * Figures 4,5; hand column, line left-hand column	C-13, no. 5 ges 536-541 JS; O. TOMI ate DSA MOS page 536, a 33 - page	, SAWA right- 537,	1	
A	 GB-A-2 091 008	- (HITACHI)			
A	* Figures 4,5; 99-105 *		lines		
					TECHNICAL FIELDS SEARCHED (Int. Cl.4)
 -	The present search report has b	een drawn up for all cla	ims		
		Date of completion	<u></u>		Examiner
	Place of search Da THE HAGUE		1986	DAVI	S A.G.W.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background		T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons			
O: no	on-written disclosure stermediate document		&: member of document	the same pate	ent family, corresponding